

Appendix 8.14: Proposed Development (Construction Phase) Impacts at Human Receptors (Cumulative Impacts)

APPENDIX 8.14 – PROPOSED DEVELOPMENT (CONSTRUCTION PHASE) IMPACTS AT HUMAN RECEPTORS (CUMULATIVE IMPACTS)

Table 8.14.1: Predicted 2026 Annual Mean NO₂ Concentration Change

Receptor	NO ₂ Annual Mean Concentration		% Change of Objective	Impact Descriptor
	Without Development	With Development		
Residential Receptors				
AB.R2a	16.3	21.7	>10%	Moderate
AB.R2b	16.4	21.7	>10%	Moderate
AB.R3	12.1	13.3	2-5%	Negligible
CD.R1	10.9	11.5	2-5%	Negligible
CD.R2	13.5	13.9	1%	Negligible
CD.R3	14.4	14.9	1%	Negligible
CD.R4	14.4	14.8	1%	Negligible
CD.R5	13.9	14.4	1%	Negligible
CD.R6	16.5	17.1	1%	Negligible
CD.R7	20.5	21.9	2-5%	Negligible
CD.R8a	20.3	21.8	2-5%	Negligible
CD.R8b	17.2	18.2	2-5%	Negligible
CD.R9	12.3	12.8	1%	Negligible
CD.R10	12.8	13.3	1%	Negligible
CD.R11	13.4	13.9	1%	Negligible

Table 8.14.2: Predicted 2026 Annual Mean PM₁₀ Concentration Change

Receptor	PM ₁₀ Annual Mean Concentration		% Change of Objective	Impact Descriptor
	Without Development	With Development		
Residential Receptors				
AB.R2a	15.8	17.4	2-5%	Negligible
AB.R2b	15.8	17.3	2-5%	Negligible
AB.R3	14.6	15.2	2-5%	Negligible
CD.R1	13.8	14.1	1%	Negligible
CD.R2	14.5	14.7	0%	Negligible
CD.R3	15.1	15.3	1%	Negligible

Receptor	PM ₁₀ Annual Mean Concentration		% Change of Objective	Impact Descriptor
	Without Development	With Development		
Residential Receptors				
CD.R4	14.6	14.8	0%	Negligible
CD.R5	14.5	14.6	0%	Negligible
CD.R6	15.0	15.2	0%	Negligible
CD.R7	17.7	18.1	1%	Negligible
CD.R8a	18.0	18.4	1%	Negligible
CD.R8b	17.0	17.3	1%	Negligible
CD.R9	15.6	15.8	0%	Negligible
CD.R10	15.9	16.1	1%	Negligible
CD.R11	16.1	16.3	1%	Negligible

Table 8.14.3: Predicted 2026 Annual Mean PM_{2.5} Concentration Change

Receptor	PM _{2.5} Annual Mean Concentration		% Change of Limit	Impact Descriptor
	Without Development	With Development		
Residential Receptors				
AB.R2a	8.0	8.9	2-5%	Negligible
AB.R2b	8.0	8.9	2-5%	Negligible
AB.R3	7.4	7.8	2-5%	Negligible
CD.R1	7.6	7.7	1%	Negligible
CD.R2	8.0	8.1	0%	Negligible
CD.R3	8.3	8.4	1%	Negligible
CD.R4	7.8	7.9	0%	Negligible
CD.R5	7.8	7.8	0%	Negligible
CD.R6	8.1	8.2	1%	Negligible
CD.R7	9.2	9.4	1%	Negligible
CD.R8a	9.3	9.6	1%	Negligible
CD.R8b	8.8	9.0	1%	Negligible
CD.R9	8.1	8.2	1%	Negligible
CD.R10	8.2	8.4	1%	Negligible
CD.R11	8.4	8.5	1%	Negligible